20020188755

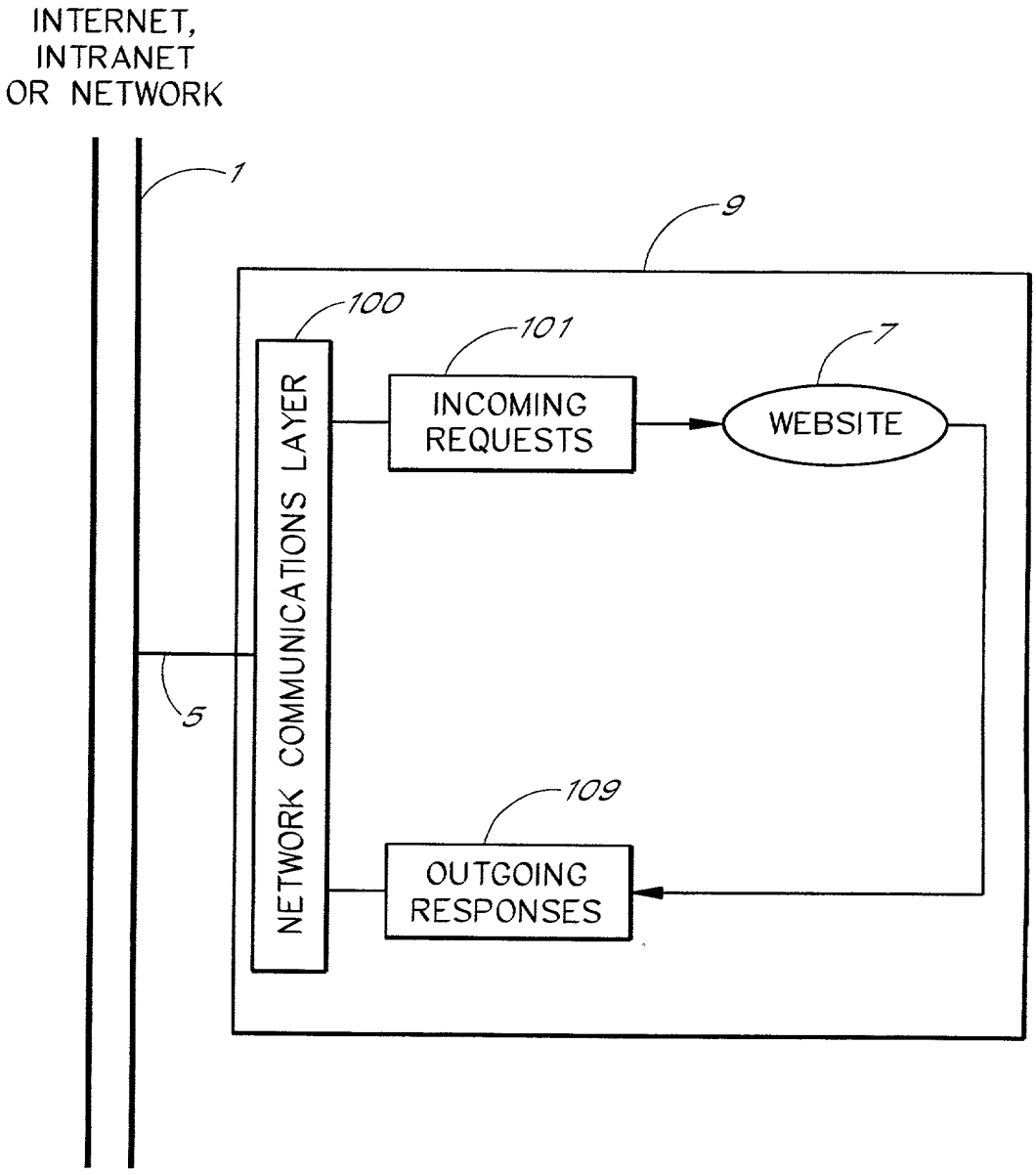

FIG. 1

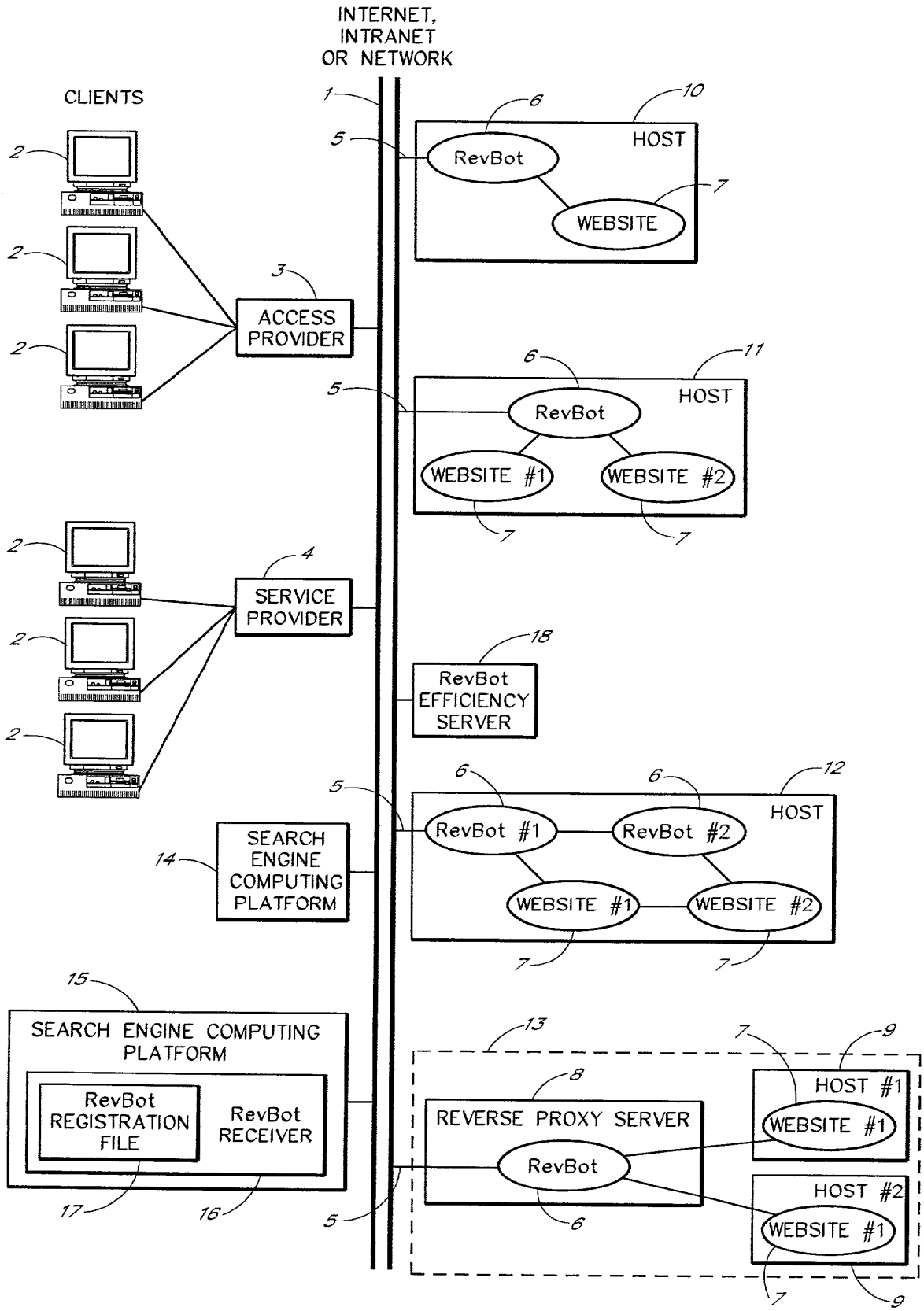
INTERNET, INTRANET OR NETWORK
CLIENTS
ACCESS PROVIDER
SERVICE PROVIDER
RevBot EFFICIENCY SERVER
SEARCH ENGINE COMPUTING PLATFORM
SEARCH ENGINE COMPUTING PLATFORM
RevBot REGISTRATION FILE
RevBot RECEIVER
HOST
RevBot
WEBSITE
HOST
RevBot
WEBSITE #1
WEBSITE #2
HOST
RevBot #1
RevBot #2
WEBSITE #1
WEBSITE #2
REVERSE PROXY SERVER
RevBot
HOST #1
WEBSITE #1
HOST #2
WEBSITE #1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

FIG. 2

20050216268

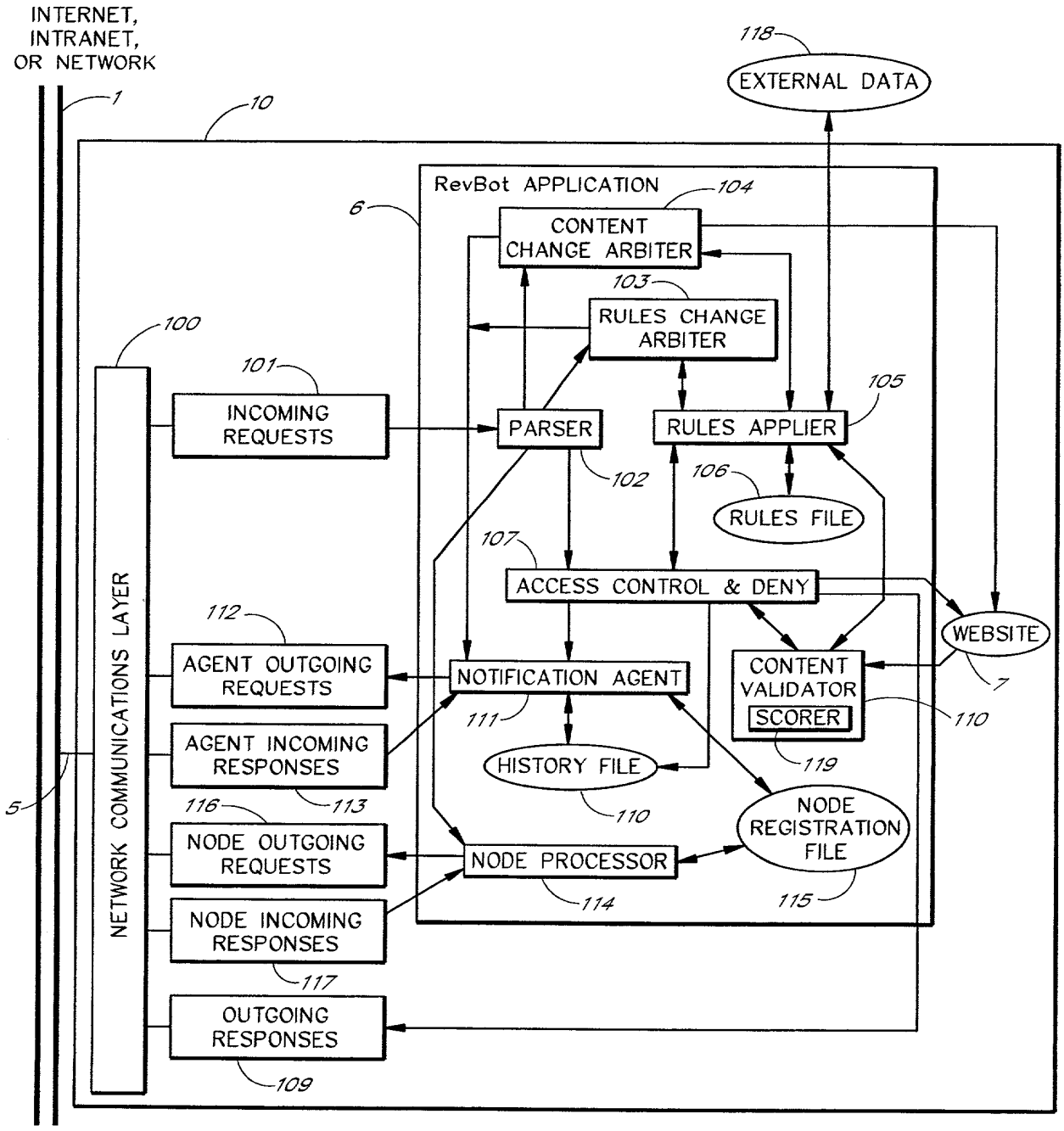

FIG. 3

Patent Application Publication

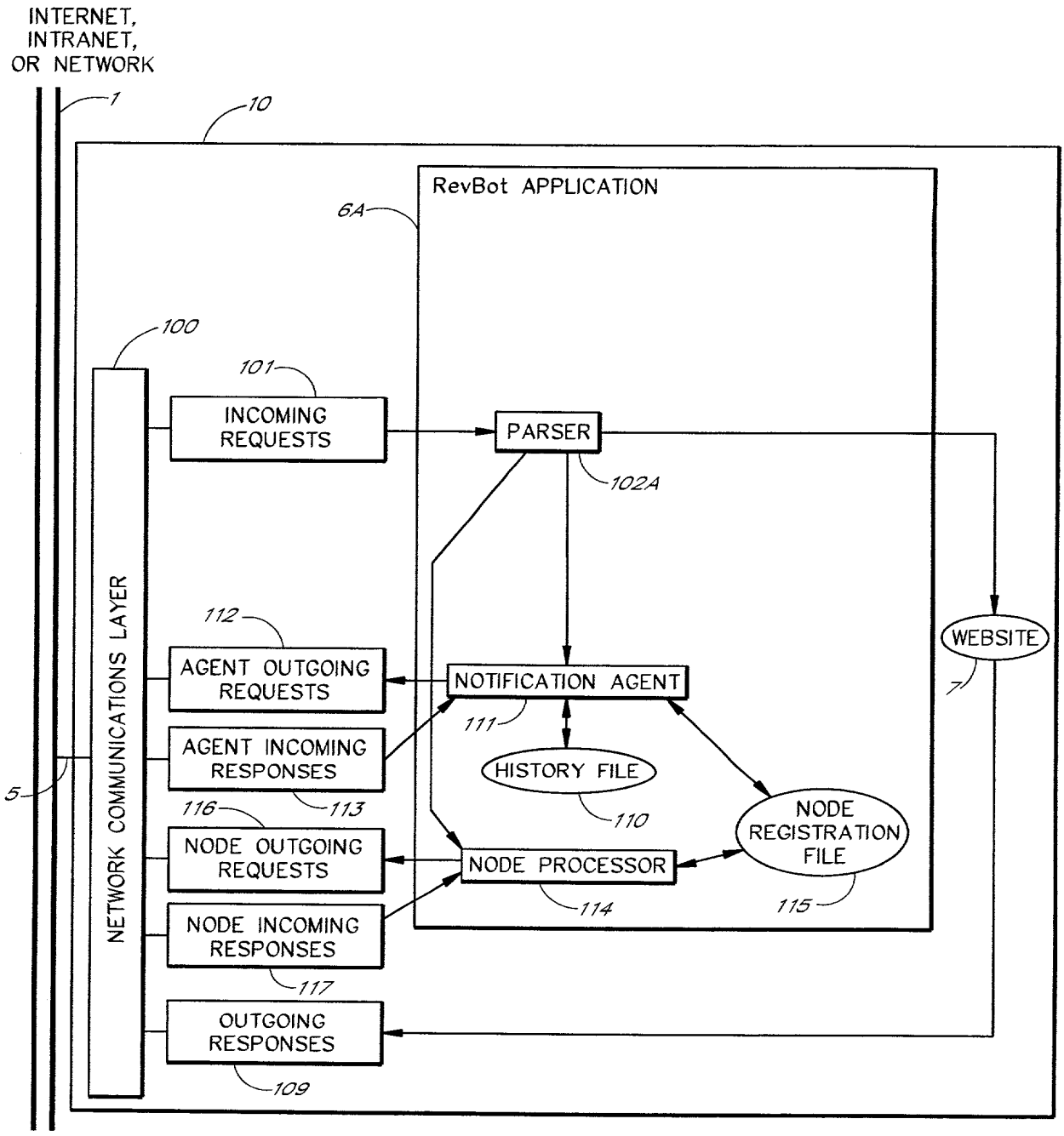

FIG. 4

WEBSITE CONTENT	CONTENT CLASSIFICATION		CONTENT TRANSMITTED
BLUE SHOES	NONE		BLUE SHOES
GREEN SHOES	NONE		GREEN SHOES
RED SHOES	NONE		(BLOCKED)
SHOES, RED	NONE		(BLOCKED)
BLUE SHOES	CLOTHES: FASHION		BLUE SHOES
GREEN SHOES	CLOTHES: FASHION		GREEN SHOES
RED SHOES	CLOTHES: FASHION		RED SHOES
RED SHOES	CLOTHES: LINGERIE		(BLOCKED)
SHOES, RED	INDUSTRY: SHOEMAKER		SHOES, RED
SHOES, RED	CLOTHES: FASHION: DESIGNER		SHOES, RED

RevBOT
ACCESS CONTROL & DENY
LOGIC 107

PARAMETER: GRADE_LEVEL=8th GRADE

PARAMETER: SCHOOL_DISTRICT=LA_CANADA

RULES APPLIER 105

RULES FILE 106

RULE 1: FOR 9th GRADE LEVEL AND BELOW, DO NOT ALLOW ANY TEXT 'RED' TO BE USED IMMEDIATELY BEFORE OR AFTER TEXT 'SHOES'

RULE 2: IGNORE RULE 1 WHEN CONTENT CLASSIFICATION IS UNDER 'FASHION' OR 'SHOEMAKERS'

FIG. 5

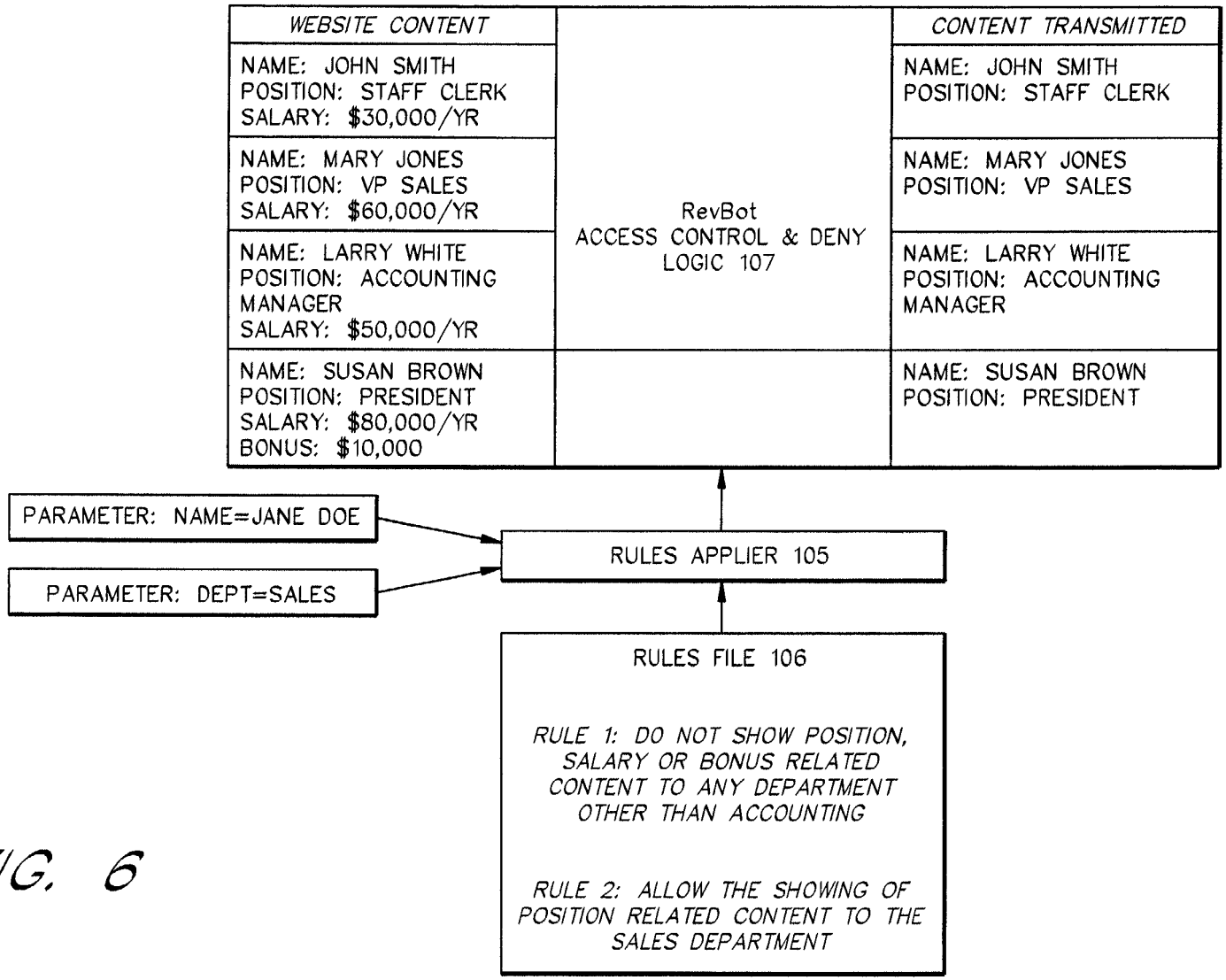
WEBSITE CONTENT
NAME: JOHN SMITH
POSITION: STAFF CLERK
SALARY: $30,000/YR
NAME: MARY JONES
POSITION: VP SALES
SALARY: $60,000/YR
NAME: LARRY WHITE
POSITION: ACCOUNTING MANAGER
SALARY: $50,000/YR
NAME: SUSAN BROWN
POSITION: PRESIDENT
SALARY: $80,000/YR
BONUS: $10,000
RevBot
ACCESS CONTROL & DENY LOGIC 107
CONTENT TRANSMITTED
NAME: JOHN SMITH
POSITION: STAFF CLERK
NAME: MARY JONES
POSITION: VP SALES
NAME: LARRY WHITE
POSITION: ACCOUNTING MANAGER
NAME: SUSAN BROWN
POSITION: PRESIDENT
PARAMETER: NAME=JANE DOE
PARAMETER: DEPT=SALES
RULES APPLIER 105
RULES FILE 106
RULE 1: DO NOT SHOW POSITION, SALARY OR BONUS RELATED CONTENT TO ANY DEPARTMENT OTHER THAN ACCOUNTING
RULE 2: ALLOW THE SHOWING OF POSITION RELATED CONTENT TO THE SALES DEPARTMENT

FIG. 6

WEBSITE CONTENT	LINKS		CONTENT TRANSMITTED	LINKS TRANSMITTED
BILLS 14, JETS 10	NONE	RevBot ACCESS CONTROL & DENY LOGIC 107 AND CONTENT VALIDATOR 108	BILLS 14, JETS 10 ROSTER ROSTER	www.nflbills.com, www.nfljets.com www.nflroster.com?team=bills, www.nflroster.com?team=jets
GIANTS 21, BEARS 20	NONE		GIANTS 21, BEARS 20 ROSTER ROSTER	www.nflgiants.com www.nflbears.com www.nflroster.com?team=rams, www.nflroster.com?team=bears
RAMS 20, EAGLES 14	NONE		RAMS 20, EAGLES 14 ROSTER ROSTER	www.nflrams.com www.nflroster.com?team=rams, www.nflroster.com?team=eagles

PARAMETER: USER_ID=0192837465 → RULES APPLIER 105

RULES FILE 106

RULE 1: DO NOT ALLOW ACCESS TO NON-REGISTERED WEBSITE USERS

RULE 2: ADD LINKS TO ALL FOOTBALL TEAM NAMES FOR WHICH WE HAVE REGISTERED LINK AS FOLLOWS:
'Bills' link=www.nflbill.com
'Jets' link=www.nfljets.com
'Colts' link=www.nflcolts.com
'Giants' link=wwwnflgiants
'Bears' link=www.nflbears.com
'Rams' link=www.nflrams.com
'49ers' link=www.nfl49ers.com

RULE 3: ADD IN TEXT "ROSTER" AND A LINK TO A TEAM'S ROSTER BELOW A TEAM'S NAME USING www.nflroster.com?team=variable(team_name)

FIG. 7

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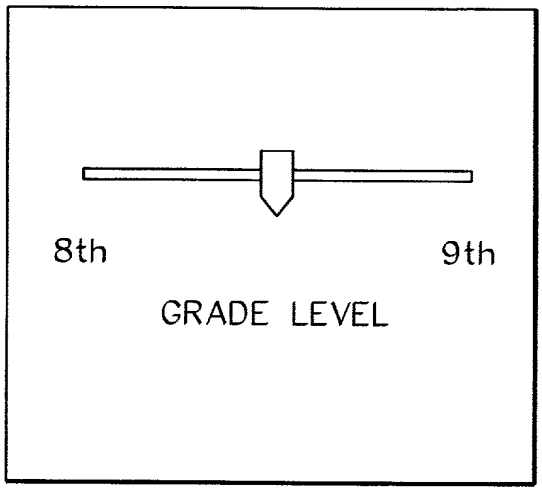

PARENTAL (SUPERVISORY) SETTINGS:

CONTENT_SCORING_BY=GRADE LEVEL
MINIMUM_RANGE=8.0
MAXIMUM_RANGE=9.0
DIVISIONS=10

FIG. 8

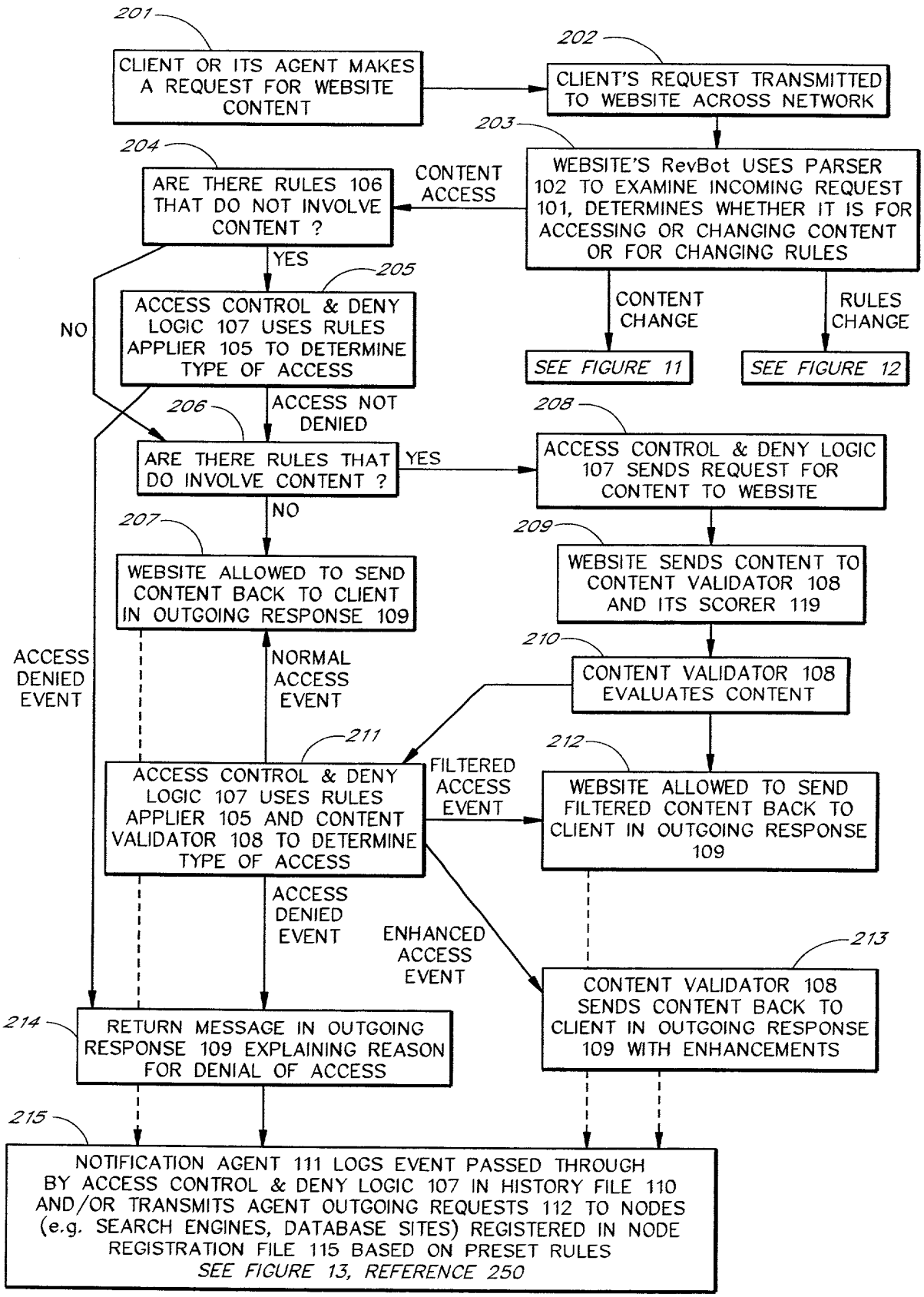
201
CLIENT OR ITS AGENT MAKES A REQUEST FOR WEBSITE CONTENT
202
CLIENT'S REQUEST TRANSMITTED TO WEBSITE ACROSS NETWORK
203
WEBSITE'S RevBot USES PARSER 102 TO EXAMINE INCOMING REQUEST 101, DETERMINES WHETHER IT IS FOR ACCESSING OR CHANGING CONTENT OR FOR CHANGING RULES
CONTENT ACCESS
204
ARE THERE RULES 106 THAT DO NOT INVOLVE CONTENT ?
YES
NO
205
ACCESS CONTROL & DENY LOGIC 107 USES RULES APPLIER 105 TO DETERMINE TYPE OF ACCESS
CONTENT CHANGE
RULES CHANGE
SEE FIGURE 11
SEE FIGURE 12
206
ACCESS NOT DENIED
ARE THERE RULES THAT DO INVOLVE CONTENT ?
YES
NO
208
ACCESS CONTROL & DENY LOGIC 107 SENDS REQUEST FOR CONTENT TO WEBSITE
207
WEBSITE ALLOWED TO SEND CONTENT BACK TO CLIENT IN OUTGOING RESPONSE 109
209
WEBSITE SENDS CONTENT TO CONTENT VALIDATOR 108 AND ITS SCORER 119
210
CONTENT VALIDATOR 108 EVALUATES CONTENT
ACCESS DENIED EVENT
NORMAL ACCESS EVENT
211
ACCESS CONTROL & DENY LOGIC 107 USES RULES APPLIER 105 AND CONTENT VALIDATOR 108 TO DETERMINE TYPE OF ACCESS
FILTERED ACCESS EVENT
212
WEBSITE ALLOWED TO SEND FILTERED CONTENT BACK TO CLIENT IN OUTGOING RESPONSE 109
ACCESS DENIED EVENT
ENHANCED ACCESS EVENT
213
CONTENT VALIDATOR 108 SENDS CONTENT BACK TO CLIENT IN OUTGOING RESPONSE 109 WITH ENHANCEMENTS
214
RETURN MESSAGE IN OUTGOING RESPONSE 109 EXPLAINING REASON FOR DENIAL OF ACCESS
215
NOTIFICATION AGENT 111 LOGS EVENT PASSED THROUGH BY ACCESS CONTROL & DENY LOGIC 107 IN HISTORY FILE 110 AND/OR TRANSMITS AGENT OUTGOING REQUESTS 112 TO NODES (e.g. SEARCH ENGINES, DATABASE SITES) REGISTERED IN NODE REGISTRATION FILE 115 BASED ON PRESET RULES
SEE FIGURE 13, REFERENCE 250

FIG. 9

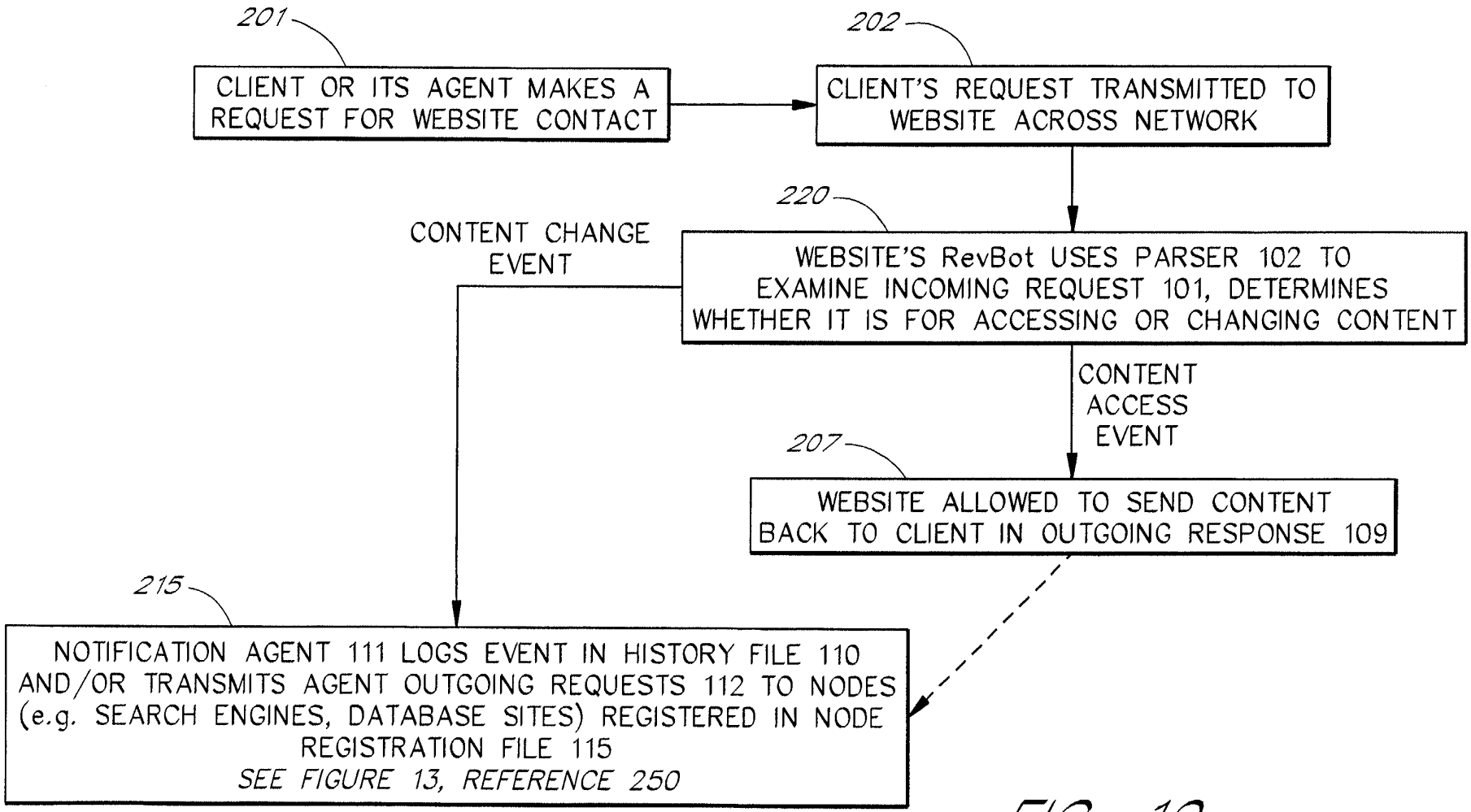
201
CLIENT OR ITS AGENT MAKES A REQUEST FOR WEBSITE CONTACT
202
CLIENT'S REQUEST TRANSMITTED TO WEBSITE ACROSS NETWORK
220
CONTENT CHANGE EVENT
WEBSITE'S RevBot USES PARSER 102 TO EXAMINE INCOMING REQUEST 101, DETERMINES WHETHER IT IS FOR ACCESSING OR CHANGING CONTENT
CONTENT ACCESS EVENT
207
WEBSITE ALLOWED TO SEND CONTENT BACK TO CLIENT IN OUTGOING RESPONSE 109
215
NOTIFICATION AGENT 111 LOGS EVENT IN HISTORY FILE 110 AND/OR TRANSMITS AGENT OUTGOING REQUESTS 112 TO NODES (e.g. SEARCH ENGINES, DATABASE SITES) REGISTERED IN NODE REGISTRATION FILE 115
SEE FIGURE 13, REFERENCE 250

FIG. 10

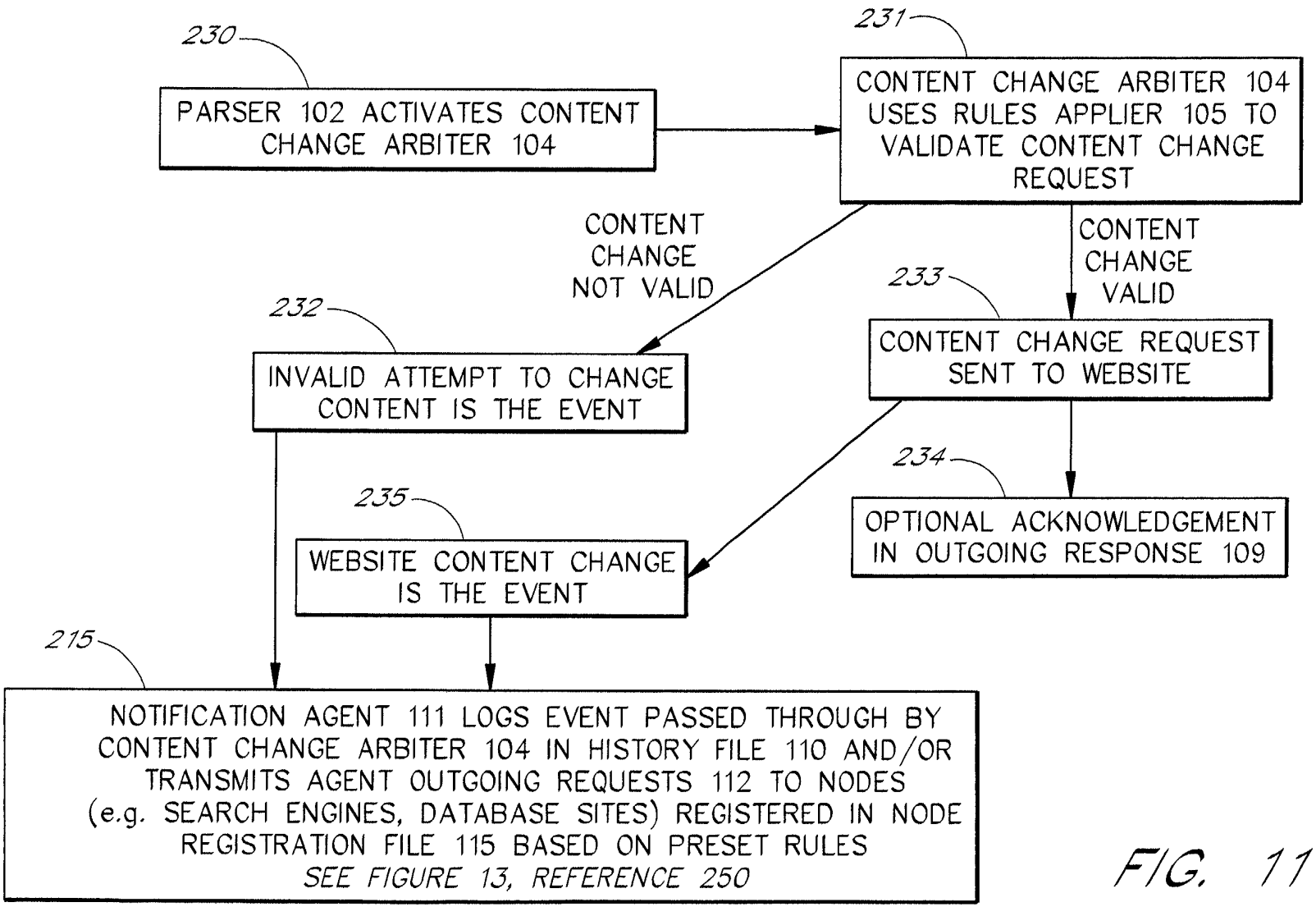
230
PARSER 102 ACTIVATES CONTENT CHANGE ARBITER 104
231
CONTENT CHANGE ARBITER 104 USES RULES APPLIER 105 TO VALIDATE CONTENT CHANGE REQUEST
CONTENT CHANGE NOT VALID
CONTENT CHANGE VALID
232
INVALID ATTEMPT TO CHANGE CONTENT IS THE EVENT
233
CONTENT CHANGE REQUEST SENT TO WEBSITE
234
OPTIONAL ACKNOWLEDGEMENT IN OUTGOING RESPONSE 109
235
WEBSITE CONTENT CHANGE IS THE EVENT
215
NOTIFICATION AGENT 111 LOGS EVENT PASSED THROUGH BY CONTENT CHANGE ARBITER 104 IN HISTORY FILE 110 AND/OR TRANSMITS AGENT OUTGOING REQUESTS 112 TO NODES (e.g. SEARCH ENGINES, DATABASE SITES) REGISTERED IN NODE REGISTRATION FILE 115 BASED ON PRESET RULES
SEE FIGURE 13, REFERENCE 250

FIG. 11

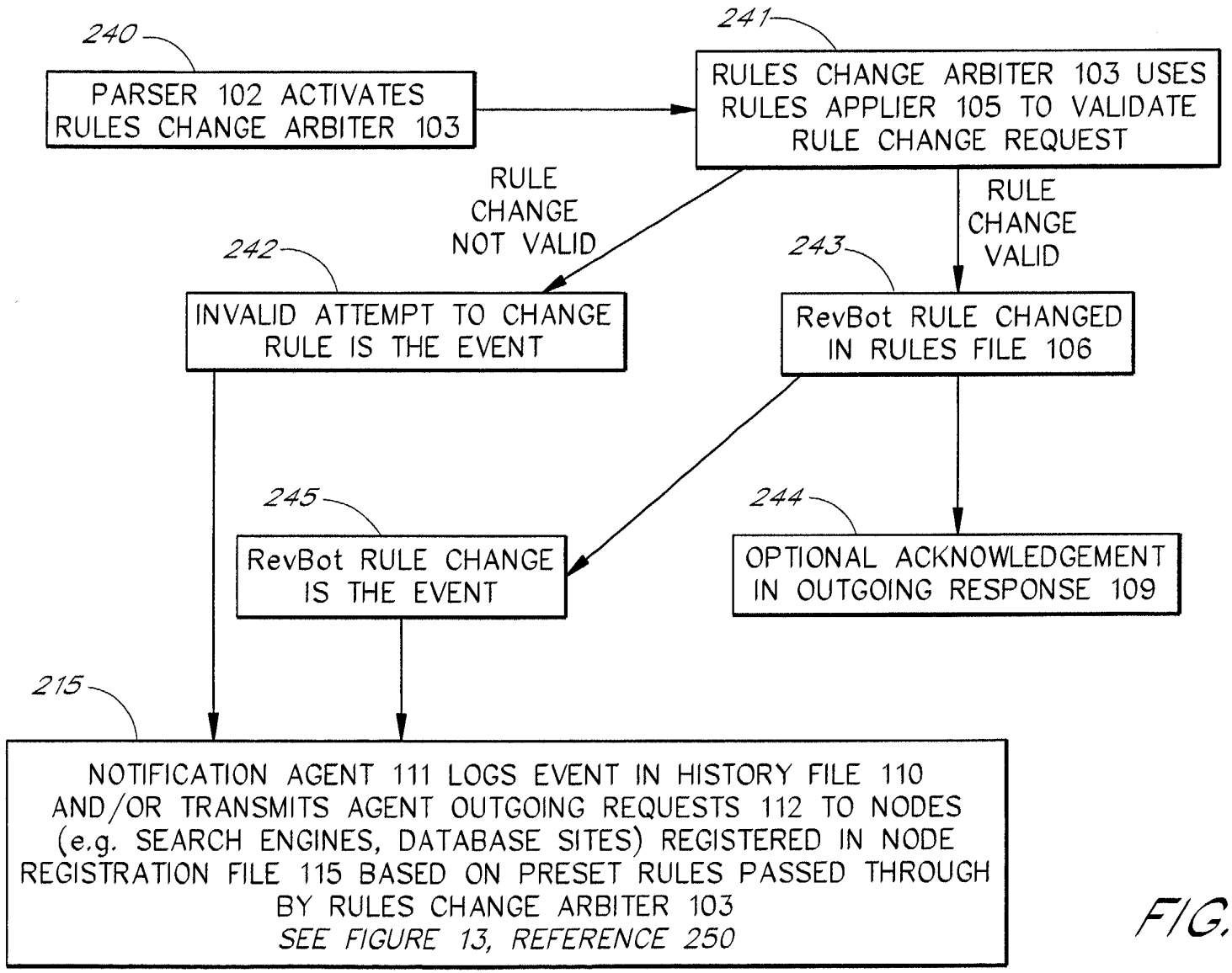
240
PARSER 102 ACTIVATES RULES CHANGE ARBITER 103
241
RULES CHANGE ARBITER 103 USES RULES APPLIER 105 TO VALIDATE RULE CHANGE REQUEST
RULE CHANGE NOT VALID
RULE CHANGE VALID
242
INVALID ATTEMPT TO CHANGE RULE IS THE EVENT
243
RevBot RULE CHANGED IN RULES FILE 106
245
RevBot RULE CHANGE IS THE EVENT
244
OPTIONAL ACKNOWLEDGEMENT IN OUTGOING RESPONSE 109
215
NOTIFICATION AGENT 111 LOGS EVENT IN HISTORY FILE 110 AND/OR TRANSMITS AGENT OUTGOING REQUESTS 112 TO NODES (e.g. SEARCH ENGINES, DATABASE SITES) REGISTERED IN NODE REGISTRATION FILE 115 BASED ON PRESET RULES PASSED THROUGH BY RULES CHANGE ARBITER 103
SEE FIGURE 13, REFERENCE 250

FIG. 12

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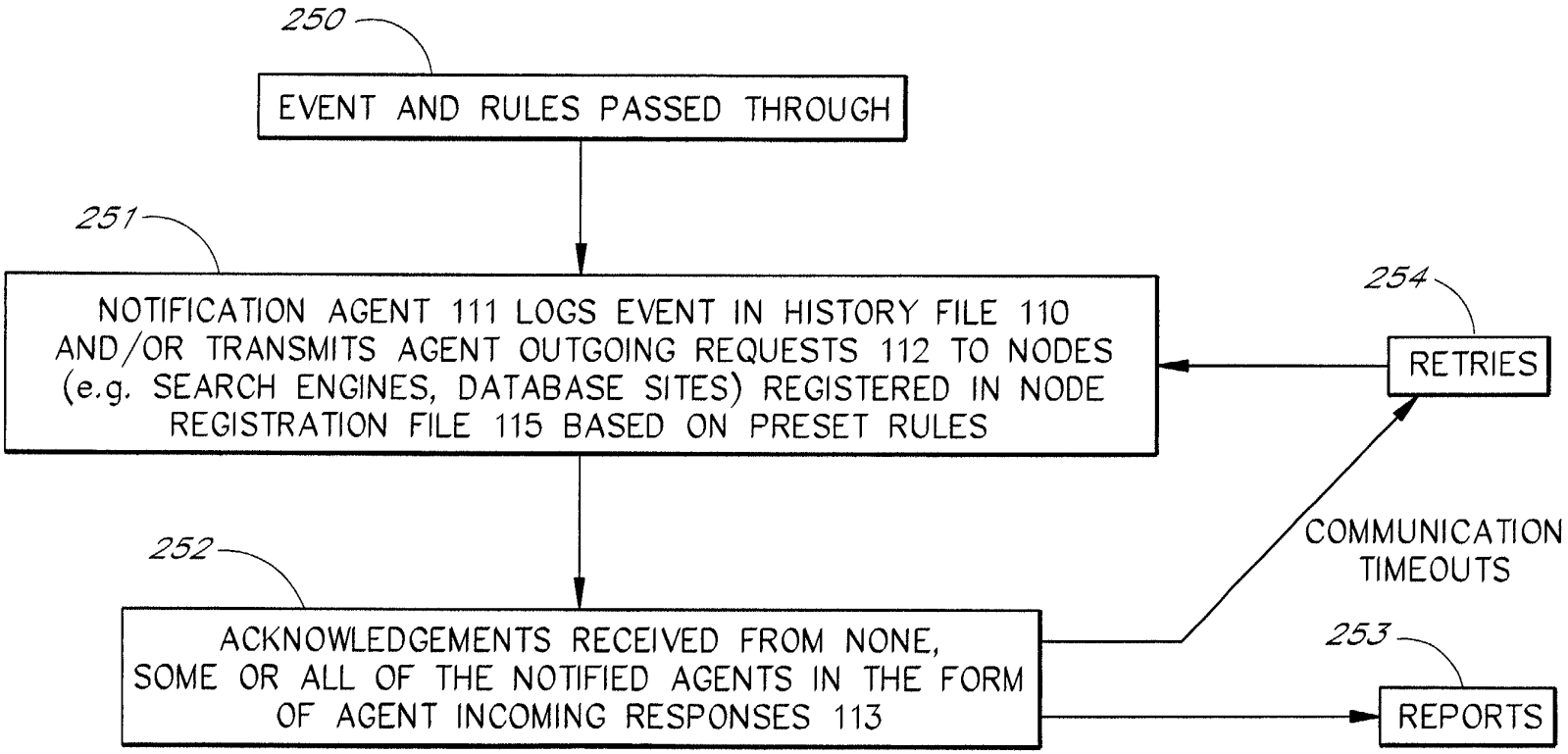

FIG. 13

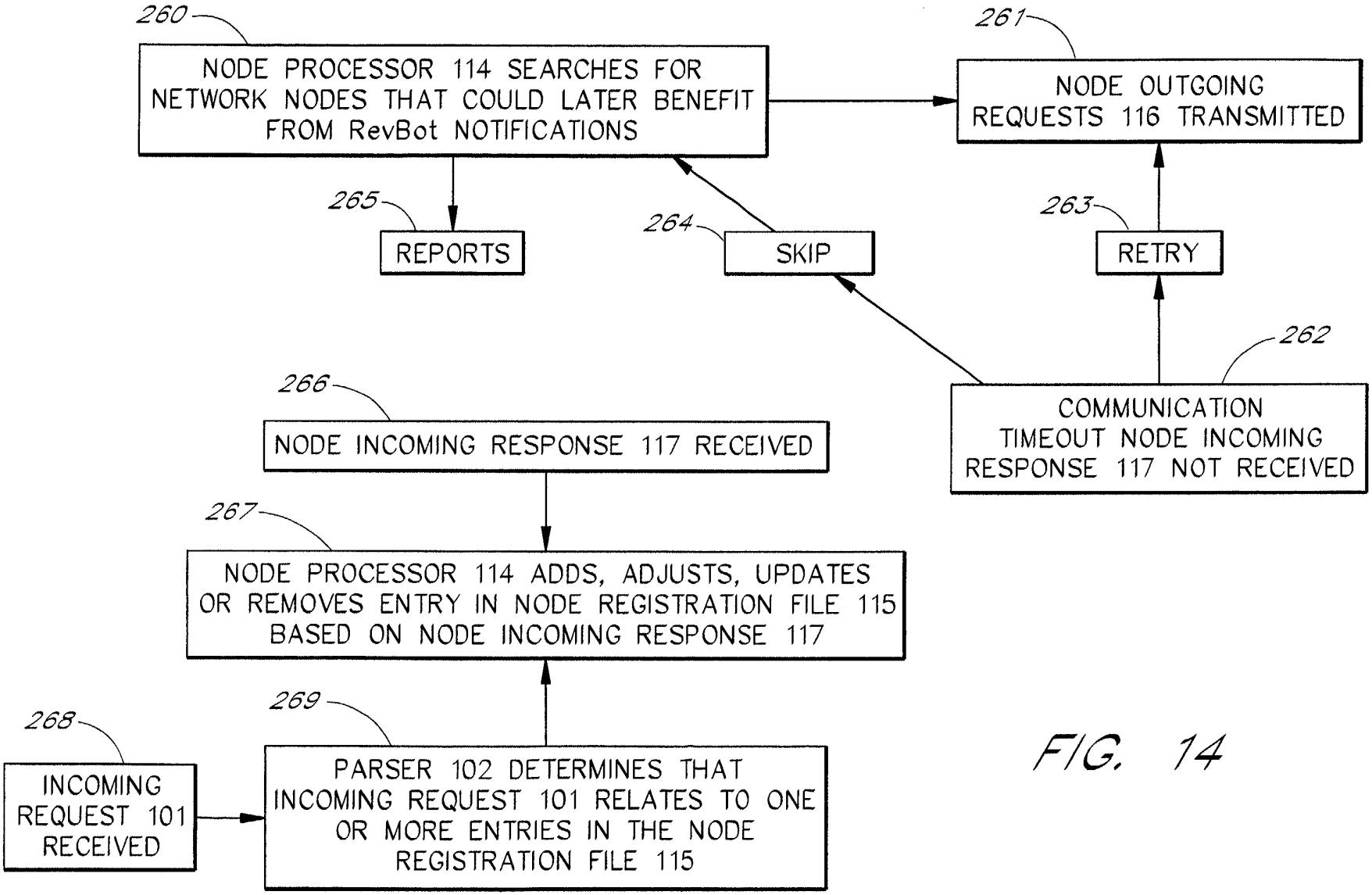
260
NODE PROCESSOR 114 SEARCHES FOR NETWORK NODES THAT COULD LATER BENEFIT FROM RevBot NOTIFICATIONS
261
NODE OUTGOING REQUESTS 116 TRANSMITTED
265
REPORTS
264
SKIP
263
RETRY
262
COMMUNICATION TIMEOUT NODE INCOMING RESPONSE 117 NOT RECEIVED
266
NODE INCOMING RESPONSE 117 RECEIVED
267
NODE PROCESSOR 114 ADDS, ADJUSTS, UPDATES OR REMOVES ENTRY IN NODE REGISTRATION FILE 115 BASED ON NODE INCOMING RESPONSE 117
269
268
INCOMING REQUEST 101 RECEIVED
PARSER 102 DETERMINES THAT INCOMING REQUEST 101 RELATES TO ONE OR MORE ENTRIES IN THE NODE REGISTRATION FILE 115

FIG. 14

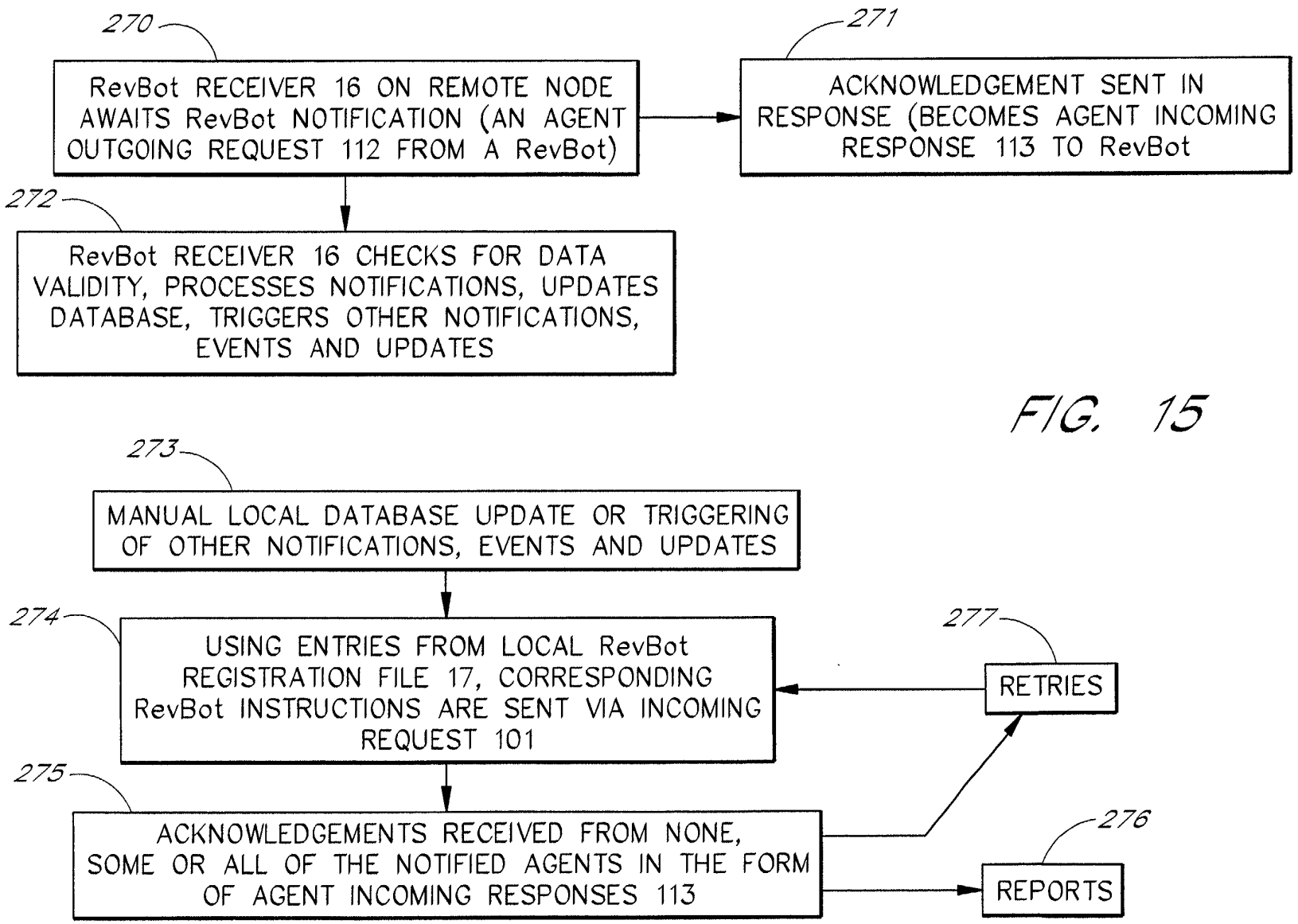
270
RevBot RECEIVER 16 ON REMOTE NODE AWAITS RevBot NOTIFICATION (AN AGENT OUTGOING REQUEST 112 FROM A RevBot)
271
ACKNOWLEDGEMENT SENT IN RESPONSE (BECOMES AGENT INCOMING RESPONSE 113 TO RevBot
272
RevBot RECEIVER 16 CHECKS FOR DATA VALIDITY, PROCESSES NOTIFICATIONS, UPDATES DATABASE, TRIGGERS OTHER NOTIFICATIONS, EVENTS AND UPDATES
273
MANUAL LOCAL DATABASE UPDATE OR TRIGGERING OF OTHER NOTIFICATIONS, EVENTS AND UPDATES
274
USING ENTRIES FROM LOCAL RevBot REGISTRATION FILE 17, CORRESPONDING RevBot INSTRUCTIONS ARE SENT VIA INCOMING REQUEST 101
277
RETRIES
275
ACKNOWLEDGEMENTS RECEIVED FROM NONE, SOME OR ALL OF THE NOTIFIED AGENTS IN THE FORM OF AGENT INCOMING RESPONSES 113
276
REPORTS

FIG. 15

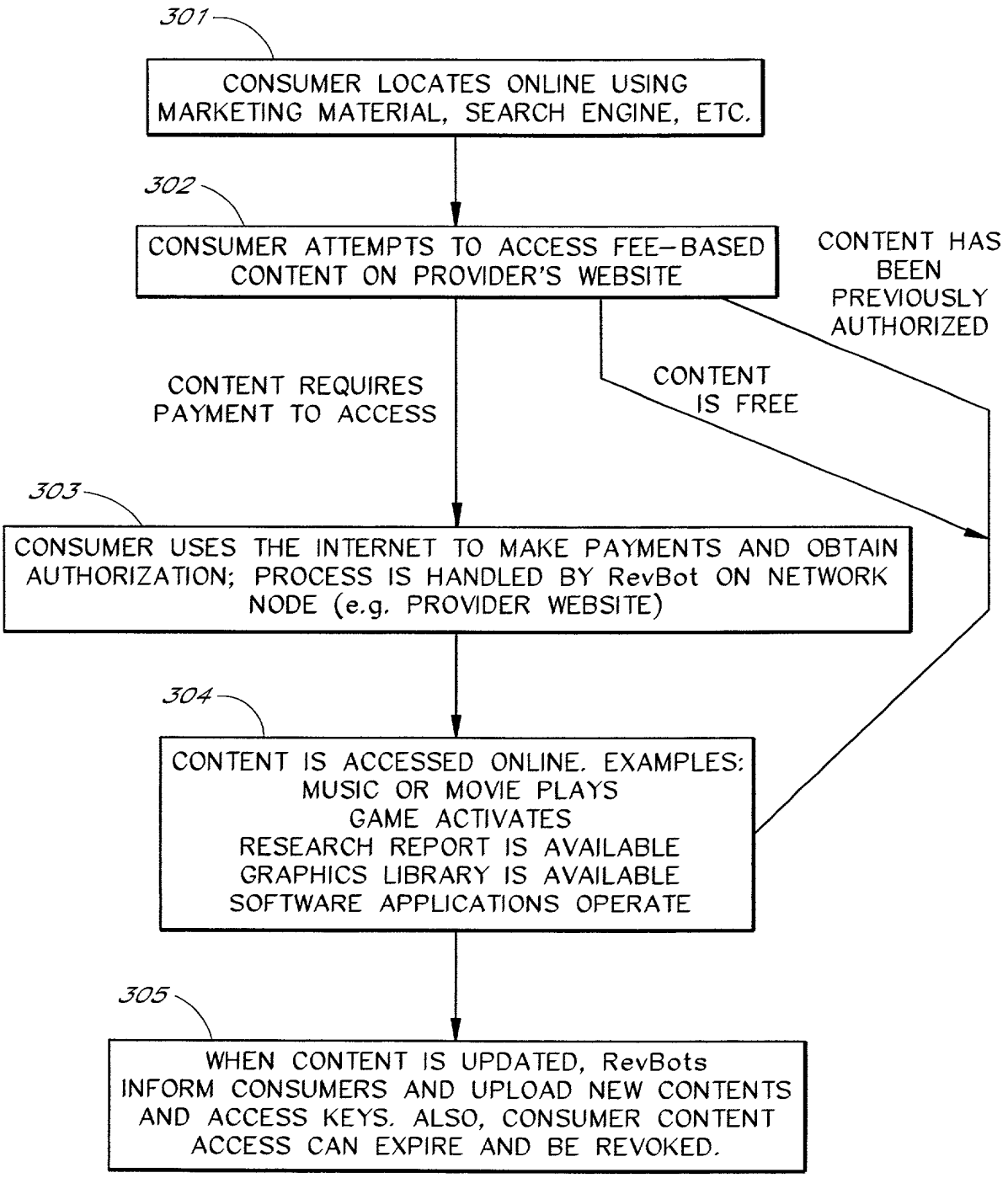
301
CONSUMER LOCATES ONLINE USING MARKETING MATERIAL, SEARCH ENGINE, ETC.
302
CONSUMER ATTEMPTS TO ACCESS FEE-BASED CONTENT ON PROVIDER'S WEBSITE
CONTENT HAS BEEN PREVIOUSLY AUTHORIZED
CONTENT REQUIRES PAYMENT TO ACCESS
CONTENT IS FREE
303
CONSUMER USES THE INTERNET TO MAKE PAYMENTS AND OBTAIN AUTHORIZATION; PROCESS IS HANDLED BY RevBot ON NETWORK NODE (e.g. PROVIDER WEBSITE)
304
CONTENT IS ACCESSED ONLINE. EXAMPLES:
MUSIC OR MOVIE PLAYS
GAME ACTIVATES
RESEARCH REPORT IS AVAILABLE
GRAPHICS LIBRARY IS AVAILABLE
SOFTWARE APPLICATIONS OPERATE
305
WHEN CONTENT IS UPDATED, RevBots INFORM CONSUMERS AND UPLOAD NEW CONTENTS AND ACCESS KEYS. ALSO, CONSUMER CONTENT ACCESS CAN EXPIRE AND BE REVOKED.

FIG. 16

US 2005/0086200 A1

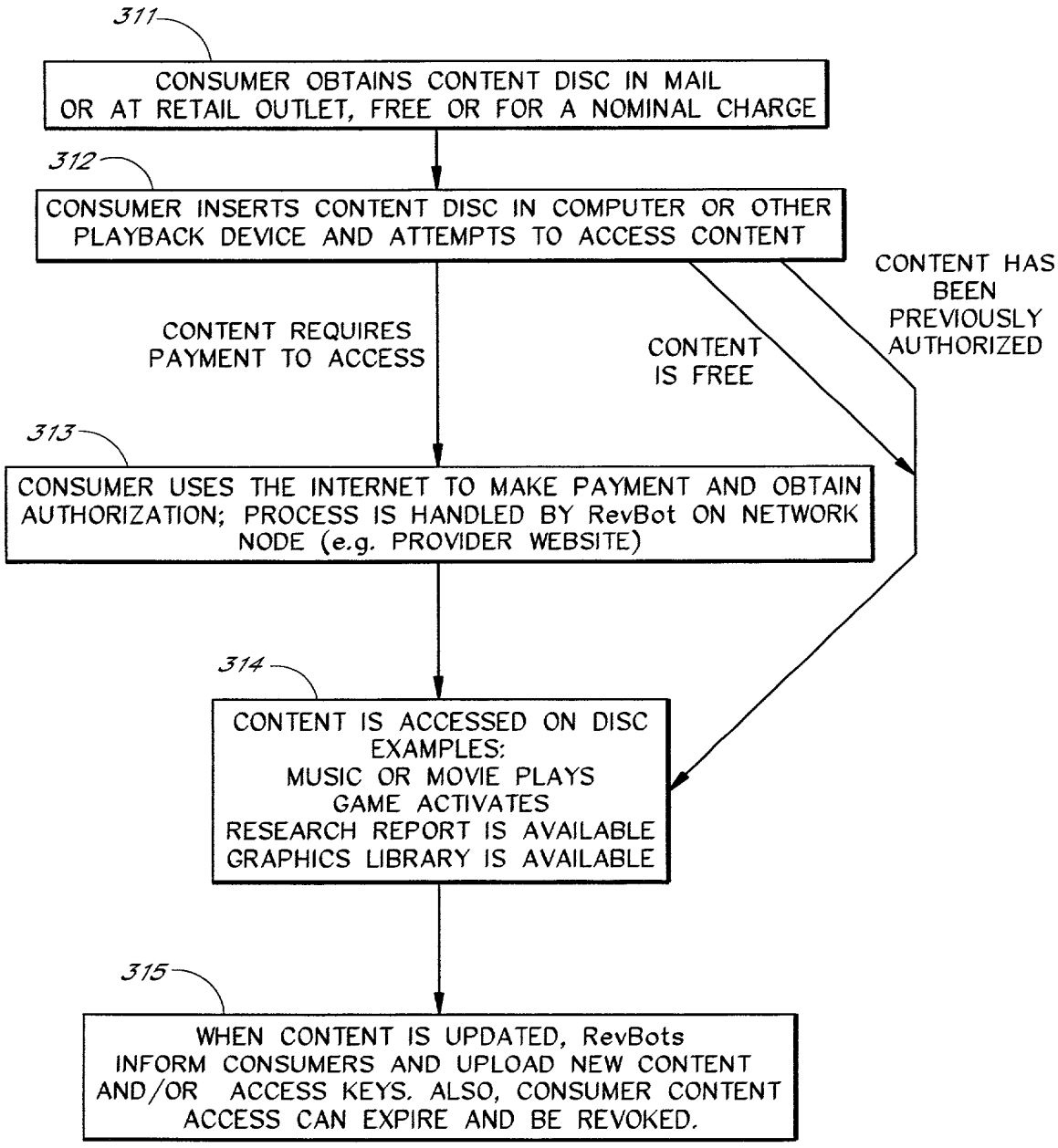

FIG. 17